**Develop a program that allows users to store and manage contact information.**

import json

import os

CONTACTS\_FILE = 'contacts.json'

def load\_contacts():

if os.path.exists(CONTACTS\_FILE):

with open(CONTACTS\_FILE, 'r') as file:

return json.load(file)

return {}

def save\_contacts(contacts):

with open(CONTACTS\_FILE, 'w') as file:

json.dump(contacts, file, indent=4)

def add\_contact(contacts):

name = input("Enter contact name: ")

phone = input("Enter phone number: ")

email = input("Enter email address: ")

if name in contacts:

print("A contact with this name already exists.")

else:

contacts[name] = {'phone': phone, 'email': email}

save\_contacts(contacts)

print(f"Contact {name} added successfully.")

def view\_contacts(contacts):

if not contacts:

print("No contacts available.")

else:

print("\nContact List:")

for name, info in contacts.items():

print(f"Name: {name}, Phone: {info['phone']}, Email: {info['email']}")

def edit\_contact(contacts):

name = input("Enter the name of the contact you want to edit: ")

if name in contacts:

print(f"Editing contact: {name}")

phone = input(f"Enter new phone number (leave blank to keep {contacts[name]['phone']}): ")

email = input(f"Enter new email address (leave blank to keep {contacts[name]['email']}): ")

if phone:

contacts[name]['phone'] = phone

if email:

contacts[name]['email'] = email

save\_contacts(contacts)

print(f"Contact {name} updated successfully.")

else:

print("Contact not found.")

def delete\_contact(contacts):

name = input("Enter the name of the contact you want to delete: ")

if name in contacts:

del contacts[name]

save\_contacts(contacts)

print(f"Contact {name} deleted successfully.")

else:

print("Contact not found.")

def main():

contacts = load\_contacts()

while True:

print("\nContact Manager")

print("1. Add New Contact")

print("2. View Contacts")

print("3. Edit Contact")

print("4. Delete Contact")

print("5. Exit")

choice = input("Choose an option: ")

if choice == '1':

add\_contact(contacts)

elif choice == '2':

view\_contacts(contacts)

elif choice == '3':

edit\_contact(contacts)

elif choice == '4':

delete\_contact(contacts)

elif choice == '5':

print("Exiting the program. Goodbye!")

break

else:

print("Invalid choice. Please select a valid option.")

if \_\_name\_\_ == "\_\_main\_\_":

main()



